ICOM
AMATEUR PRODUCTS
SIMPLY THE BEST
IC-820H
DUAL BAND ALL MODE TRANSCEIVER
IC-T21A
DUAL BAND FM TRANSCEIVER IC-2700H
HF TRANSCEIVER IC-738
Icom Inc.

HF TRANSCEIVERS

HF ALL BAND TRANSCEIVER

IC-781

- **The HF master model designed for serious DX'ers**
- **Spectrum scope for monitoring band conditions**
- **Dual watch capability and twin passband tuning**

• 150 W output power • Fully automatic antenna tuner • DDS system • 5-in CRT display • Adjustable notch filter and noise blanker • Independent RIT/ΔTX for VFO A/B • 500 Hz narrow filters • 99 memory channels with 10-character notes • Built-in power supply • Versatile scan functions • Clock and timers

HF ALL BAND TRANSCEIVER

IC-765

- **Superior C/N and phase noise blocking characteristics**
- **Fully automatic antenna tuner with tuning data memory**
- **Complete CW functions and built-in CW narrow filters**

• Built-in power supply • 100 W output • High sensitivity • DDS system • IF shift • Electronic keyer • CW pitch control • Adjustable notch filter and noise blanker • Direct keypad entry • RF speech compressor and transmission signal monitor • RIT and ΔTX • 99 memory channels • Versatile scan functions

HF ALL BAND TRANSCEIVER

IC-738

- **Built-in automatic antenna tuner with 100 kHz step memory**
- **Superior receiver and full duty transmitter for DX use**
- **Twin antenna connectors with automatic selector**

• 100 W output • 99 memory channels • Memo pads • Double band stacking register • Passband tuning • AF notch filter • RIT and ΔTX • Noise blanker • RF gain control and attenuator • AF speech compressor • Quick split function • 1 Hz tuning resolution DDS system • CW full break-in • Electronic keyer • VOX

HF/50 MHz ALL BAND TRANSCEIVER

IC-736

- **Plug 'n play with built-in power supply and automatic antenna tuner**
- **100 W output over all HF bands plus the 6 m band**
- **Final power MOS FET for clean transmission signals**

• Passband tuning • AF notch filter • RIT and ΔTX • RF gain control and attenuator • Noise blanker • 1 Hz tuning resolution DDS system • 99 memory channels • Memo pads • Double band stacking register • AF speech compressor • Quick split function • CW full break-in • Electronic keyer • SWR/ALC meter • VOX

HF TRANSCEIVERS

HF ALL BAND TRANSCEIVER

IC-728

- **Compact and lightweight for easy setup anywhere**
- **All band, all mode transceiver with a general coverage receiver**
- **Passband tuning and speech compressor**

• DDS system • Dual VFO's with split capability • Band stacking register • 26 memory channels • CW semi break-in • RIT with +Δf function • Preamplifier and attenuator • Noise blanker • 10 Hz frequency readout • Versatile scan functions • Optional AM transmission and FM transmission/reception

HF ALL BAND TRANSCEIVER

IC-707

- **Compact and simple to operate**
- **All band, all mode transceiver with a general coverage receiver**
- **Stable 100 W output power and high sensitivity**

• DDS system • Band stacking register • Dual VFO's with split capability • 30 memory channels • RIT control • CW semi break-in • Preamplifier and attenuator • Noise blanker • 10 Hz tuning resolution • 2 types of scan • Optional CW narrow filters and high-stability crystal unit • Optional FM transmission/reception

DDS is an abbreviation of Direct Digital Synthesizer.

ALL MODE TRANSCEIVERS

MULTI BAND ALL MODE TRANSCEIVER

IC-970H

- **Expansion capability for 1200, 2400 MHz and wideband receiving**
- **Simultaneous dual band receiving with independent dial control**
- **Frequency tracking function for satellite communication**

• DDS system • 10 satellite memory channels • Direct keypad entry • 99 memory channels for each band • Notch filter • Speech compressor • CW semi break-in • Pager and code squelch • Versatile scan functions • Data connector • Optional pocket beep and tone squelch • Optional ATV capability

DUAL BAND ALL MODE TRANSCEIVER

IC-820H

- **Compact and lightweight all mode dual bander**
- **Independent controls with sub tuning function**
- **Satellite VFO and 10 satellite memory channels**

• High sensitivity • 1 Hz tuning resolution DDS system • 100 memory channels allocatable for both bands • RIT control • IF shift • AF speech compressor • CW semi break-in • Versatile scan functions • Optional tone scan, pocket beep and tone squelch • Supports 9600 bps packet operation

144 MHz ALL MODE TRANSCEIVER

IC-275H

- **Superior selectivity and image rejection ratio**
- **100 W output with 100% full duty cycle**
- **DDS system provides high-speed lockup times and high C/N ratio**

• Compact body • 99 memory channels • IF notch filter • Noise blanker • CW full break-in • Versatile scan functions • AF speech compressor • Continuously adjustable output power • Adjustable transmit/receive audio tones • Data switch for data communications • Optional voice synthesizer and tone squelch units

430 MHz ALL MODE TRANSCEIVER

IC-475H

- **High sensitivity receiver with GaAs FET and balanced mixer**
- **75 W output with 100% full duty cycle**
- **High-speed lockup times and data mode for data communications**

• DDS system • 99 memory channels • IF notch filter • Noise blanker • CW full break-in • Versatile scan functions • AF speech compressor • Continuously adjustable output power • Adjustable transmit/receive audio tones • High frequency stability • SWR meter • Optional voice synthesizer and tone squelch units

OPTIONS

Series definitions

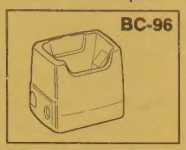
"W21T" series : IC-W21AT/ET, IC-V21AT
"GXT" series : IC-2GXAT/ET, IC-4GXAT/ET
"GX" series : IC-2GXA/E, IC-4GXA/E
"T21" series : IC-T21A/E, IC-T41A/E
"S21" series : IC-S21A/E, IC-S41A/E

A

- **AD-22, AD-25**
  BATTERY CHARGE ADAPTERS
  Connect to charge a battery pack from a DC power source or cigarette lighter cable.
  <AD-22: IC-⊿1A/E>
  <AD-25: "W21T/GX/GXT" series>
- **AD-27, AD-28, AD-44**
  DESKTOP CHARGER ADAPTERS
  Insert into the BC-79 to fit a battery pack to the BC-79's charging slot.
  <AD-27: IC-⊿1A/E>
  <AD-28: "W21T/GX/GXT" series>
  <AD-44: "T21/S21" series>
- **AG-25, AG-35, AG-1200**
  WEATHERPROOF PREAMPLIFIERS
  External, all-weather, mast-mount preamplifiers for compensating for feed-line losses.
  <AG-25 (144 MHz): IC-970H, IC-820H, IC-275H>
  <AG-35 (430 MHz): IC-970H, IC-820H, IC-475H>
  <AG-1200 (1200 MHz): IC-970H with UX-97>
- **AH-2a, AH-3**
  100 W HF AUTOMATIC ANTENNA TUNERS
  Specially designed to tune a long wire antenna for portable or mobile operation. Match a more than 3 m* long wire to all HF bands 3.5 MHz and higher.
  * To operate on the 1.8 MHz band, a 12 m wire is required.
  <AH 2a: IC-765>
  <AH-3: IC-738, IC-736, IC-728, IC-707>
- **AH-2b** HF ANTENNA ELEMENT
  A 2.5 m long antenna element with 0.9 m high voltage cable for mobile operation. All bands between 3.5 to 30 MHz can be matched with the AH-2a or AH-3.
  <Icom HF transceivers with AH-2a or AH-3>
- **AH-32** 144/430(440) MHz DUAL BAND MOBILE ANTENNA + **AHB-32** TRUNK MOUNT
  Has an SO-259 connector.
  <Icom mobile transceivers>
- **AH-7000** SUPER WIDEBAND OMNIDIRECTIONAL ANTENNA
  Super wideband frequency coverage for 25 to 1300 MHz receiving.
  <IC-970H with UX-R96>
- **AT-150**
  100 W HF AUTOMATIC ANTENNA TUNER
  Includes an automatic antenna selector for 3 separate antennas; moreover, has a terminal for a long wire antenna.
  <IC-765, IC-738, IC-736, IC-728, IC-707>
- **AT-160**
  100 W HF AUTOMATIC ANTENNA TUNER
  Can be attached to the transceiver side panel. Power and tuning are controlled through the transceiver.
  <IC-728, IC-707>
- **IC-AT500**
  500 W HF AUTOMATIC ANTENNA TUNER
  Includes an automatic antenna selector for 4 separate antennas.
  <Icom HF transceiver with IC-2KL>

B

- **BC-74A/E/D/V** WALL CHARGER
  See the table at right.
  <"T21/S21" series>
- **BC-77A/E/D/V** WALL CHARGER
  See the table below.
  <"W21T/GX/GXT" series, IC-⊿1A/E>
- **BC-79** DESKTOP CHARGER
  Rapidly charges a battery pack in 1 to 1.5 hours. A battery pack adapter is required to use this charger. See the table below.
  <Icom handheld transceivers>
- **BC-96** MICROPHONE HOLDER
  Fixes the HM-90/A in a convenient place and charges it simultaneously. The microphone cable of the HM-90/A supplies power to the BC-96.
  <IC-2700H with HM-90/A>



- **BC-105A/D/V** WALL CHARGER
  See the table below.
  <"W21T/GX/GXT" series, IC-⊿1A/E>
- **BP-100–BP-103, BP-130/A–BP-132/A, BP-151–BP-153, BP-157/A, BP-159, BP-160, BP-174**
  BATTERY PACKS AND CASES
  See the table below.
  <Icom handheld transceivers>

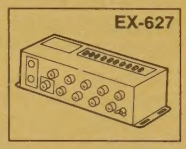
C

- **CP-12, CP-13/L** CIGARETTE LIGHTER CABLES WITH NOISE FILTERS
  Allow you to operate your handheld and to charge its battery pack through a 12 V cigarette lighter socket. The CP-13/L supplies power to the BC-96 to charge the HM-90/A.
  <CP-12: "T21/S21" series>
  <CP-13/L: IC-⊿1A/E, "W21T/GX/GXT" series, IC-2700H with HM-90/A>

- **CR-64, CR-282, CR-293, CR-338**
  HIGH-STABILITY CRYSTAL UNITS
  Provide improved frequency stability.
  Frequency stability: ±0.5 ppm (−30℃ to +60℃; −22℉ to +140℉)
  <CR-64: IC-728, IC-275H, IC-475H>
  <CR-282: IC-765, IC-738, IC-736>
  <CR-293: IC-970H, IC-820H>
  <CR-338: IC-707>
- **CT-16** SATELLITE INTERFACE UNIT
  Connects 2 Icom CI-V transceivers for satellite tracking and tuning. Reverse and normal tracking are available.
  <Icom HF, all mode transceivers>
- **CT-17** CI-V LEVEL CONVERTER
  For remote transceiver control using a personal computer equipped with an RS-232C port.
  <Icom HF, all mode transceivers>

E

- **IC-EX243** ELECTRONIC KEYER UNIT
  Provides electronic keyer operation for fast and efficient CW contacts.
  <IC-970H>
- **EX-627**
  HF AUTOMATIC ANTENNA SELECTOR
  Automatically selects an antenna according to the selected operating band. Up to nine 50 Ω type antennas can be connected. Manual selection is also possible.
  <Icom HF transceivers, IC-2KL, IC-4KL>



- **EX-1513** INFRARED SUB RECEIVER
  Receives control signals from the HM-90/A. Increases remote control reliability and extends the controllable area.
  <IC-2700H with HM-90/A>

Battery pack specifications

		Battery pack	Height (with transceiver)	Voltage	Capacity	Usable chargers and cables (approximate charging time)		
						Desktop charger BC-79	Wall chargers	Cables
IC-⊿1A/E		BP-100	139 mm	BATTERY CASE R6 (AA) × 6				
		BP-101	145 mm	7.2 V	700 mAh	with AD-27 (1 hr.)	BC-77, BC-105 (15 hrs.)	OPC-288, CP-13 (15 hrs.)
		BP-102	145 mm	7.2 V	1200 mAh	with AD-27 (1.5 hrs.)	BC-77, BC-105 (15 hrs.)	OPC-288, CP-13 (15 hrs.)
		BP-103	170.6 mm	12.0 V	600 mAh	with AD-27 (1.5 hrs.)	BC-77, BC-105 (20 hrs.)	OPC-288, CP-13 (20 hrs.)
"W21T/GX/GXT" series	Gray	BP-130	125 mm	BATTERY CASE R6 (AA) × 6				
		BP-131* BP-157	125 mm	7.2 V	900 mAh	with AD-28 (1 hr.)	BC-77, BC-105 (15 hrs.)	OPC-288, CP-13 (15 hrs.)
		BP-132*	153.2 mm	12.0 V	600 mAh	with AD-28 (1.5 hrs.)	BC-77 or BC-105 with AD-25 (20 hrs.)	OPC-288 or CP-13 with AD-25 (20 hrs.)
	Black	BP-130A	125 mm	BATTERY CASE R6 (AA) × 6				
		BP-131A* BP-157A	125 mm	7.2 V	900 mAh	with AD-28 (1 hr.)	BC-77, BC-105 (15 hrs.)	OPC-288, CP-13 (15 hrs.)
		BP-132A* BP-174	153.2 mm	12.0 V	600 mAh	with AD-28 (1.5 hrs.)	BC-77 or BC-105 with AD-25 (20 hrs.)	OPC-288 or CP-13 with AD-25 (20 hrs.)
		BP-160	125 mm	7.2 V	700 mAh	with AD-28 (1 hr.)	BC-77, BC-105 (15 hrs.)	OPC-288, CP-13 (15 hrs.)
"T21/S21" series		BP-151	111 mm	6.0 V	800 mAh	with AD-44 (75 min.)	BC-74 (15 hrs.)	OPC-254, CP-12 (15 hrs.)
		BP-152	126.8 mm	6.0 V	1100 mAh	with AD-44 (70 min.)	BC-74 (15 hrs.)	OPC-254, CP-12 (15 hrs.)
		BP-153	174.7 mm	12.0 V	600 mAh	with AD-44 (80 min.)	BC-74 (15 hrs.)	OPC-254, CP-12 (15 hrs.)
		BP-159	111 mm	BATTERY CASE R6 (AA) × 4				

* BP-131/A and BP-132/A have a sub microphone for the whisper function.

OPTIONS

Series definitions

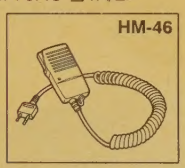
"W21T" series : IC-W21AT/ET, IC-V21AT
"GXT" series : IC-2GXAT/ET, IC-4GXAT/ET
"GX" series : IC-2GXA/E, IC-4GXA/E
"T21" series : IC-T21A/E, IC-T41A/E
"S21" series : IC-S21A/E, IC-S41A/E

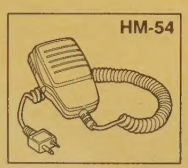
F

- **FA-3BA, FA-B2A, FA-B70A, FA-B270A, FA-B2125A, FA-S270A** FLEXIBLE ANTENNAS
  <FA-3BA: IC-⊿1A/E>
  <FA-B2A: IC-2GXAT/ET, IC-2GXA/E>
  <FA-B70A: IC-4GXAT/ET, IC-4GXA/E>
  <FA-B270A: IC-W21AT/ET>
  <FA-B2125A: IC-V21AT>
  <FA-S270A: "T21/S21" series transceivers>
- **FL-32A, FL-52A, FL-53A, FL-83, FL-100, FL-101, FL-132, FL-133** CW NARROW FILTERS
  FL-102 AM FILTER
  FL-103 SSB WIDE FILTER
  Refer to the chart below for details.
  <Icom HF, all mode transceivers>

H

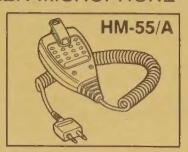
- **HM-9/L** SPEAKER-MICROPHONE
  Combination speaker and microphone.
  <"W21T/GX/GXT" series>
- **HM-36** HAND MICROPHONE
  Equipped with up/down switches for scanning. Same as supplied with the IC-738, IC-736 and IC-707.
  <Icom HF, all mode transceivers>
- **HM-46/L, HM-65** SPEAKER-MICROPHONES
  Compact and lightweight speaker-microphones. Have an earphone jack.
  <HM-46/L: "W21T/GX/GXT/T21/S21" series>
  <HM-65: IC-⊿1A/E>
- **HM-54, HM-70** SPEAKER-MICROPHONES
  Full-sized speaker-microphones.
  <HM-54: "W21T/GX/GXT/T21/S21" series>
  <HM-70: IC-⊿1A/E>



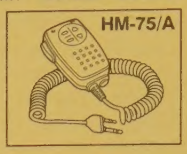


HM-46L and HM-65 are the same style, only the plugs differ.

- **HM-55/A** DTMF SPEAKER-MICROPHONE
  Streamlined speaker-microphone with a DTMF keypad.
  <"W21T/GX/GXT/T21/S21" series>



- **HM-75/A** REMOTE CONTROL MICROPHONE
  Speaker-microphone with remote control keys. Remotely selects memory channels, operating frequency, etc.
  <HM-75: IC-W21AT/ET>
  <HM-75A: "T21/S21" series, IC-V21AT>



- **HM-77/A, HM-78, HM-79** HAND MICROPHONES
  Streamlined microphones. The HM-77/A has 14 DTMF code channels for auto dialing. The HM-77/A and HM-79 have a 1750 Hz tone call function.
  <IC-2340H, IC-281H, IC-481H>
- **HM-88/A** SPEAKER-MICROPHONE
  Full remote control microphone supplied with the IC-⊿100H.
- **HM-90/A** WIRELESS MICROPHONE
  Infrared, full remote control microphone. Wired remote control is also possible.
  <IC-2700H>
- **HM-92/A** HAND MICROPHONE
  Same type as supplied with the IC-2700H.
- **HS-51** HEADSET
  Lightweight headsets equipped with VOX and "one-touch PTT" functions for hands-free operation.
  <"W21T/GX/GXT/T21/S21" series>

I

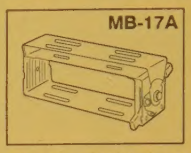
- **IC-2KL** 500 W HF LINEAR AMPLIFIER
  All solid-state 500 W linear amplifier.
  <Icom HF transceivers>
- **IC-4KL** 1 kW HF LINEAR AMPLIFIER
  Top-of-the-line all solid-state 1 kW linear amplifier with fully-automatic antenna tuner. Has full break-in (QSK) capability.
  <Icom HF transceivers>

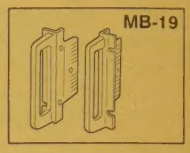
L

- **LC-81, LC-82, LC-105/A, LC-106/A, LC-109, LC-110, LC-111, LC-116, LC-117, LC-118, LC-119** CARRYING CASES
  For protecting your handhelds. See the table on p. 8 for details.

M

- **IC-MB5** MOBILE MOUNTING BRACKET
  Transceiver bracket for mobile operation.
  <IC-728, IC-707, IC-820H, IC-275H, IC-475H>
- **MB-17A** MOBILE MOUNTING BRACKET
  One-touch bracket. Transceiver body is easily attached and removed.
  <IC-2700H, IC-2340H, IC-281H, IC-481H>
- **MB-19** RACK MOUNTING HANDLES
  For a 19-in mounting rack. The same as supplied with the IC-781.
  <IC-781, IC-765, IC-970H>





- **MB-23** CARRYING HANDLES
  For easy portable operation.
  <IC-728, IC-707, IC-820H, IC-275H, IC-475H>
- **MB-24** MOUNTING BRACKET
  Hanger-type bracket for mobile operation.
  <IC-⊿1A/E>
- **MB-25** MOUNTING BRACKET
  Wall-type bracket for mounting on a wall.
  <IC-⊿1A/E>
- **MB-26, MB-27, MB-59** MOBILE MOUNTING BRACKETS
  Same as those supplied with Icom mobile transceivers.
  <MB-26: IC-2700H>
  <MB-27: IC-⊿100H>
  <MB-59: IC-2340H, IC-281H, IC-481H>
- **MB-30** MOUNTING BRACKET
  Mounts a handheld in a vehicle or on a wall.
  <"W21T/GX/GXT/ T21/S21" series>
- **MB-49** MOBILE MOUNTING BRACKET
  Transceiver bracket for mobile operation.
  <IC-738>
- **MB-50, MB-58** REMOTE CONTROLLER BRACKETS
  Mount remote controllers in a convenient location. Useful when a controller is detached with a separation kit.
  <MB-50: IC-⊿100H>
  <MB-58: IC-2700H>

O

- **OPC-254, OPC-288** DC POWER CABLES
  Allow you to operate your handheld with 6–16 V DC (4–16 V DC for "T21/S21" series); also charges battery packs at 12–16 V DC. The OPC-288 supplies power to the BC-96 to charge the HM-90/A.
  <OPC-254: "T21/S21" series>
  <OPC-288: "W21T/GX/GXT" series, IC-⊿1A/E, IC-2700H with HM-90/A>
- **OPC-332, OPC-333** SEPARATION KITS
  For separating the front panel from the IC-⊿100H main body.
  Cable length: OPC-332: 3.5 m (11.5 ft)
  OPC-333: 7.0 m (23.0 ft).
- **OPC-335** SPEAKER EXTENSION CABLE
  Allows longer distance between main body and external speaker. 5.0 m (16.4 ft).
  <IC-⊿100H>
- **OPC-345** DC POWER CABLE
  Same as supplied with the IC-2340H and IC-481H. 3 m (9.8 ft), 15 A.
- **OPC-346** DC POWER CABLE
  Same as supplied with the IC-⊿100H, IC-2700H and IC-281H. 3 m (9.8 ft), 20 A.

Filters

	Center frequency	Passband width	IC-781	IC-765	IC-738 IC-736	IC-728	IC-707	IC-970H	IC-820H	IC-275H	IC-475H
FL-32A	9.0106 MHz	500 Hz/ – 6 dB	Built-in	Built-in							●
FL-52A	455 kHz	500 Hz/ – 6 dB	Built-in	Built-in	Either	.....	Either	.....	.....	.....	.....
FL-53A		250 Hz/ – 6 dB	Built-in	●							
FL-83	10.7491 MHz	500 Hz/ – 6 dB								●	
FL-100	9.0106 MHz	500 Hz/ – 6 dB			Either	Either		.....	.....	.....	.....
FL-101		250 Hz/ – 6 dB	Built-in	●							
FL-102	9.0100 MHz	6.0 kHz/ – 6 dB	Built-in	●							
FL-103	9.0115 MHz	2.8 kHz/ – 6 dB	①								
FL-132	10.8491 MHz	500 Hz/ – 6 dB						②	●		
FL-133	10.9491 MHz	500 Hz/ – 6 dB						③			

① Replaces built-in FL-102. ② For MAIN band. ③ For SUB band. [●]: Applicable [ ]: Not applicable

OPTIONS

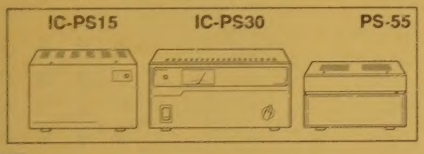
Series definitions

"W21T" series : IC-W21AT/ET, IC-V21AT
"GXT" series : IC-2GXAT/ET, IC-4GXAT/ET
"GX" series : IC-2GXA/E, IC-4GXA/E
"T21" series : IC-T21A/E, IC-T41A/E
"S21" series : IC-S21A/E, IC-S41A/E

- **OPC-347** DC POWER CABLE
  Cable length: 7.0 m (23.0 ft); capacity 20 A.
  <Icom mobile transceivers>
- **OPC-438, OPC-439** SEPARATION KITS
  For separating the front panel from the IC-2700H main body.
  Cable length: OPC-438: 3.5 m (11.5 ft)
  OPC-439: 7.0 m (23.0 ft).
- **OPC-440** MIC EXTENSION CABLE
  Allows longer distance between the main body and microphone. 5.0 m (16.4 ft).
  <IC-2700H, IC-2340H, IC-281H, IC-481H>
- **OPC-441** SPEAKER CABLE
  Allows longer distance between the main body and external speaker. 5.0 m (16.4 ft).
  <IC-2700H>

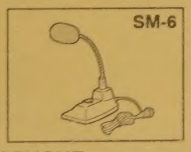
P

- **IC-PS15** DC POWER SUPPLY
  A heavy-duty power transformer system power supply. 13.8 V DC, 20 A max.
  <Icom HF, all mode transceivers>
- **IC-PS30** DC POWER SUPPLY
  A lightweight switching regulator system power supply equipped with a 6-pin DC power cable and 3 extra output connectors. 13.8 V DC, 25 A max.
  <Icom HF, all mode, mobile transceivers>
- **IC-PS35** INTERNAL POWER SUPPLY
  Built-in type power supply for the IC-970H. 13.8 V DC, 20 A max.
- **PS-55** DC POWER SUPPLY
  A heavy-duty power transformer system power supply. 13.8 V DC, 20 A max.
  <Icom HF, all mode transceivers>

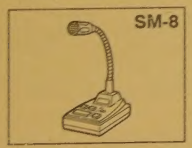


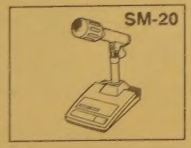
S

- **SM-6** DESKTOP MICROPHONE
  Simple desktop microphone.
  <Icom HF, all mode transceivers>

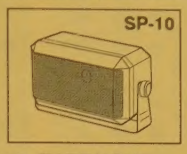


- **SM-8** DESKTOP MICROPHONE
  Up/down switches are included. Can be connected to 2 Icom transceivers.
  <Icom HF, all mode transceivers>
- **SM-20** DESKTOP MICROPHONE
  Provides high quality audio to the transceiver. Equipped with low-frequency cut capability.
  <Icom HF, all mode transceivers>





- **IC-SP3** EXTERNAL SPEAKER
  Large external speaker. 8 Ω, 4 W max.
  <Icom HF, all mode transceivers>
- **SP-7** EXTERNAL SPEAKER
  Compact external speaker. 8 Ω, 5 W max.
  <Icom HF, all mode, mobile transceivers>
- **SP-10, SP-12** EXTERNAL SPEAKERS
  Designed for mobile operation.
  SP-10: Easy to install. 4 Ω, 5 W max.
  SP-12: Can be installed on a sun visor, dashboard, etc. 8 Ω, 3 W max.
  <Icom mobile transceivers>



- **SP-13** EARPHONE
  Provides clear receive audio in noisy environments.
  <Icom handheld transceivers>
- **SP-20** EXTERNAL SPEAKER
  Equipped with 4 selectable audio filters. Style and size are matched with the IC-781, IC-765 and IC-970H. Can be connected to 2 transceivers. 8 Ω, 5 W max.
  <Icom HF, all mode transceivers>
- **SP-21** EXTERNAL SPEAKER
  Designed for base station operation. Style and size are matched with the IC-738 and IC-736. 8 Ω, 5 W max.
  <Icom HF, all mode transceivers>

T

- **TV-970** ATV ADAPTER
  Provides advanced ATV (Amateur Television) operation.
  <IC-970H with UX-97 or UX-98>

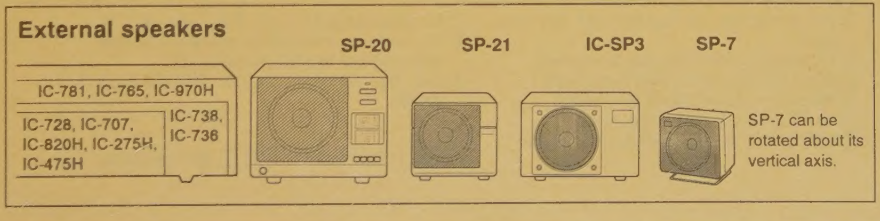
U

- **UI-7** AM•FM UNIT
  Provides the IC-728 with AM transmission and FM transmission/reception.
- **UI-9** FM UNIT
  Provides the IC-707 with FM transmission/reception.
- **UT-30**
  PROGRAMMABLE TONE ENCODER UNIT
  Provides 38 programmable subaudible tones. Built-in to the IC-781.
  <Icom HF transceivers>
- **UT-34** TONE SQUELCH UNIT
  Provides pocket beep, tone squelch and programmable tone encoder functions.
  <IC-970H, IC-275H, IC-475H>
- **UT-36** VOICE SYNTHESIZER UNIT
  Announces the operating frequency and operating mode.
  <IC-781, IC-765, IC-970H, IC-820H, IC-275H, IC-475H>
- **UT-49** DTMF DECODER UNIT
  Provides pager and code squelch functions.
  <"GXT" series>
- **UT-50** TONE SQUELCH UNIT
  Provides the IC-820H with pocket beep, tone squelch, programmable tone encoder and tone scan functions.
- **UT-55** DTMF ENCODER/DECODER UNIT
  Enables convenient remote control via a DTMF equipped microphone and provides pager and code squelch functions.
  <IC-2340H>
- **UT-66** VOICE SYNTHESIZER UNIT
  Announces an accessed band's frequency.
  <Icom mobile transceivers>
- **UT-70** TONE SQUELCH UNIT
  Provides pocket beep, tone squelch and programmable tone encoder functions.
  <IC-⊿1A/E>
- **UT-71**
  PROGRAMMABLE TONE ENCODER UNIT
  Provides 38 programmable subaudible tones. Built-in to the U.S.A. version.
  <IC-⊿1A/E>
- **UT-75** DTMF DECODER UNIT
  Enables convenient remote control via a DTMF equipped microphone and provides pager and code squelch functions.
  <IC-⊿100H>
- **UT-76** TONE SQUELCH UNIT
  Provides pocket beep, tone squelch and programmable tone encoder functions.
  <IC-⊿100H>
- **UT-81** TONE SQUELCH UNIT
  Provides pocket beep, tone squelch, programmable tone encoder and tone scan functions. Built-in to the U.S.A. version.
  <"T21/S21" series>
- **UT-84, UT-85, UT-86, UT-89**
  TONE SQUELCH UNITS
  Provide pocket beep, tone squelch, programmable tone encoder and tone scan functions.
  <UT-84: IC-2700H>
  <UT-85: IC-281H, IC-481H>
  <UT-86: "GX" series except U.S.A. version>
  <UT-89: IC-2340H>
- **UX-97** 1200 MHz BAND UNIT
  UX-98 2400 MHz BAND UNIT
  UX-R96 RECEIVER UNIT
  Provide 1200, 2400 MHz all mode operation and wideband receiving capability. Use the CR-293 together with the UX-98.
  <IC-970H>

Band units	Bands	Modes	Output power
UX-97	1200 MHz	SSB, CW, FM	1.5–10 W
UX-98	2400 MHz	SSB, CW, FM	0.2–1 W
UX-R96	50–905 MHz*	AM, FM, wide FM	Receive only.

* Frequency range varies according to versions.

External speakers



OPTIONS

USABLE OPTION TABLE

HF and all mode transceivers

Options \ Transceivers		IC-781	IC-765	IC-738	IC-736	IC-728	IC-707	IC-970H	IC-820H	IC-275H	IC-475H
External DC power supplies	IC-PS15			●		●	●	●	●	●	●
	PS-55			●		●	●	●	●	●	●
	IC-PS30			●		●	●	●	●	●	●
Internal DC power supply	IC-PS35							●			
External speakers	IC-SP3	●	●	●	●	●	●	●	●	●	●
	SP-7	●	●	●	●	●	●	●	●	●	●
	SP-20	●	●	●	●	●	●	●	●	●	●
	SP-21	●	●	●	●	●	●	●	●	●	●
HF linear amplifiers	IC-2KL	②	②	②	②	②	②				
	IC-4KL	●	●	●	●	●	●				
HF automatic antenna tuners	AH-2a		●								
	AH-3			●	●	●	●				
	AT-150		●	●	●	●	●				
	AT-160					●	●				
	IC-AT500	②	②	②	②	②	②				
Antenna selector	EX-627	●	●	●	●	●	●				
Antenna element	AH-2b		●	●	●	●	●				
Antenna	AH-7000							③			
Weatherproof preamplifiers	AG-25							●	●	●	
	AG-35							●	●		●
	AG-1200							④			
Hand microphone	HM-36	●	●	①	①	●	①	●	●	●	●
Desktop microphones	SM-6	●	●	●	●	●	●	●	●	●	●
	SM-8	●	●	●	●	●	●	●	●	●	●
	SM-20	●	●	●	●	●	●	●	●	●	●
Mobile mounting brackets	IC-MB5					●	●		●	●	●
	MB-49			●	⑤						
Handles	MB-19	①	●					●			
	MB-23			①	①	⑥	⑥		⑥	●	●
ATV adapter	TV-970							⑦			
CI-V systems	CT-16	●	●	●	●	●	●			●	●
	CT-17	●	●	●	●	●	●	●	●	●	●
High-stability crystal units	CR-64					●				●	●
	CR-282		●	●	●						
	CR-293							●	●		
	CR-338						●				
Electronic keyer unit	IC-EX243							●			
AM•FM unit	UI-7					●					
FM unit	UI-9						●				
Programmable tone encoder unit	UT-30	①	●	●	●	●	●				
Tone squelch units	UT-34							●		●	●
	UT-50								⑧		
Voice synthesizer unit	UT-36	●	●					●	●	●	●
1200 MHz band unit	UX-97							●			
2400 MHz band unit	UX-98							⑨			
Receiver unit	UX-R96							●			

① The same type as supplied with the transceiver.
② An optional OPC-118 cable is required.
③ When an optional UX-R96 is installed.
④ When an optional UX-97 is installed.
⑤ An AC power source is required.
⑥ Use screws included with the transceiver.
⑦ An optional UX-97 or UX-98 is required.
⑧ Two units are required for operation on both main and sub bands simultaneously.
⑨ Use the optional CR-293 together with UX-98.

● : Applicable : Not applicable

Mobile transceivers

Options \ Transceivers		IC-⊿1100H	IC-2700H	IC-2340H	IC-281H	IC-481H
Antenna	AH-32 + AHB-32	●	●	●	●	●
Wireless microphone	HM-90/A		●			
Hand microphones	HM-77/A					
	HM-78			②	②	②
	HM-79					
	HM-88/A	①				
	HM-92/A		①			
Mobile mounting brackets	MB-17A		●	●	●	●
	MB-26		①			
	MB-27	①				
	MB-59			①	①	①
Separations kits	OPC-332	●				
	OPC-333	●				
	OPC-438		●			
	OPC-439		●			
Remote controller brackets	MB-50	●				
	MB-58		●			
Microphone holder	BC-96		③			
External DC power supply	IC-PS30	●	●	●	●	●
DC power cables	CP-13/L		④			
	OPC-288		④			
	OPC-345			①		①
	OPC-346	①	①		①	
	OPC-347	●	●	●	●	●
External speakers	SP-7	●	●	●	●	●
	SP-10	●	●	●	●	●
	SP-12	●	●	●	●	●
Speaker extension cables	OPC-335	●				
	OPC-441		●			
Mic extension cable	OPC-440		●	●	●	●
Tone squelch units	UT-76	●				
	UT-84		●			
	UT-85				●	●
	UT-89			●		
DTMF encoder/decoder unit	UT-55			●		
DTMF decoder unit	UT-75	●				
Voice synthesizer unit	UT-66	●	●	●	●	●
Infrared sub receiver	EX-1513		③			

① The same type as supplied with the transceiver.
② One of the hand microphones is supplied depending on versions.
③ When an optional HM-90/A is used.
④ When an optional HM-90/A and BC-96 are used.

● : Applicable : Not applicable

Handheld transceivers

Options		Transceivers: IC-⊿1A/E	IC-W21AT/ET	IC-V21AT	IC-2GXAT/ET	IC-4GXAT/ET	IC-2GXA/E	IC-4GXA/E	IC-T21A/E	IC-T41A/E	IC-S21A/E	IC-S41A/E
Battery packs	BP-101	●										
	BP-102	●										
	BP-103	●										
	BP-131		●									
	BP-131A			●								
	BP-132		●									
	BP-132A			●								
	BP-151								●	●	●	●
	BP-152								●	●	●	●
	BP-153								●	●	●	●
	BP-157		●									
	BP-157A			●	●	●	●	●				
	BP-160			●	●	●	●	●				
	BP-174			●	●	●	●	●				
Battery cases	BP-100	●										
	BP-130		●									
	BP-130A			●	●	●	●	●				
	BP-159								●	●	●	●
Flexible antennas	FA-3BA	①										
	FA-B2A				①		①					
	FA-B70A					①		①				
	FA-B270A		①									
	FA-B2125A			①								
	FA-S270A								①	①	①	①
Speaker-microphones	HM-9/L		●	●								
	HM-46/L		●	●	●	●	●	●	●	●	●	●
	HM-54		●	●	●	●	●	●	●	●	●	●
	HM-55/A		●	●	●	●	●	●	●	●	●	●
	HM-65	●										
	HM-70	●										
Remote control microphones	HM-75		●									
	HM-75A			●					●	●	●	●
Headset	HS-51		●	●	●	●	●	●	●	●	●	●
Earphone	SP-13	●	●	●	●	●	●	●	●	●	●	●
Mounting brackets	MB-24	●										
	MB-25	●										
	MB-30		●	●	●	●	●	●	●	●	●	●
Programmable tone encoder unit	UT-71	②										
Tone squelch units	UT-70	●										
	UT-81								②	②	②	②
	UT-86				①	①	③	③				
DTMF decoder unit	UT-49				●	●						
Battery charge adapters	AD-22	●										
	AD-25		●	●	●	●	●	●				
Desktop charger adapters	AD-27	●										
	AD-28		●	●	●	●	●	●				
	AD-44								●	●	●	●

① Supplied or built-in to the transceiver.
② An equivalent unit is installed in the U.S.A. version.
③ Cannot be installed in the U.S.A. version. The U.S.A. version has a subaudible tone encoder circuit instead.

●: Applicable
□: Not applicable

Battery chargers and charging times

	BC-74	BC-77 BC-105	BC-79	CP-12 OPC-254	CP-13/L OPC-288
BP-101		15 hrs.	1 hr. ②		15 hrs.
BP-102		15 hrs.	1.5 hrs. ②		15 hrs.
BP-103		20 hrs.	1.5 hrs. ②		20 hrs.
BP-131		15 hrs.	1 hr. ③		15 hrs.
BP-131A		15 hrs.	1 hr. ③		15 hrs.
BP-132		20 hrs. ①	1.5 hrs. ③		20 hrs. ①
BP-132A		20 hrs. ①	1.5 hrs. ③		20 hrs. ①
BP-151	15 hrs.		75 min. ④	15 hrs.	
BP-152	15 hrs.		70 min. ④	15 hrs.	
BP-153	15 hrs.		80 min. ④	15 hrs.	
BP-157		15 hrs.	1 hr. ③		15 hrs.
BP-157A		15 hrs.	1 hr. ③		15 hrs.
BP-160		15 hrs.	1 hr. ③		15 hrs.
BP-174		20 hrs. ①	1.5 hrs. ③		20 hrs. ①

① AD-25 is required.
② AD-27 is required.
③ AD-28 is required.
④ AD-25 is required.

Carrying cases

	IC-⊿1A/E	IC-W21AT/ET	IC-V21AT	IC-2GXAT/ET IC-4GXAT/ET	IC-2GXA/E IC-4GXA/E	IC-T21A/E IC-T41A/E IC-S21A/E IC-S41A/E
BP-100	LC-81					
BP-101	LC-81					
BP-102	LC-81					
BP-103	LC-82					
BP-130		LC-105				
BP-130A			LC-105A	LC-116	LC-118	
BP-131		LC-105				
BP-131A			LC-105A			
BP-132		LC-106				
BP-132A			LC-106A			
BP-151						LC-109
BP-152						LC-111
BP-153						LC-110
BP-157		LC-105				
BP-157A			LC-105A	LC-116	LC-118	
BP-159						LC-109
BP-160			LC-105A	LC-116	LC-118	
BP-174				LC-117	LC-119	

SPECIFICATIONS

HF and all mode transceivers

		IC-781	IC-765	IC-738	IC-736	IC-728
General	Frequency coverage	Tx: 1.8, 3.5, 7, 10, 14, 18, 21, 24, 28 MHz bands Rx: 100 kHz–30 MHz	Tx: 1.8, 3.5, 7, 10, 14, 18, 21, 24, 28 MHz bands Rx: 100 kHz–30 MHz	Tx: 1.8, 3.5, 7, 10, 14, 18, 21, 24, 28 MHz bands Rx: 30 kHz–29.999999 MHz Specifications guaranteed 500 kHz–29.995 MHz.	Tx: 1.8, 3.5, 7, 10, 14, 18, 21, 24, 28, 50 MHz bands Rx: 30 kHz–30 MHz, 45–60 MHz Specifications guaranteed 500 kHz–29.995 MHz and 50–54 MHz.	Tx: 1.8, 3.5, 7, 10, 1· 21, 24, 28 MHz Rx: 30 kHz–30 MHz Specifications guara 500 kHz–30 MHz.
	Modes	USB, LSB, CW, RTTY, AM, FM	USB, LSB, CW, RTTY, AM, FM	USB, LSB, CW, AM, FM	USB, LSB, CW, AM, FM	USB, LSB, CW, AM * An optional UI-7 is for AM transmitting transmitting/receiv
	Frequency stability	± 15 Hz − 10 °C to + 60 °C; + 14 °F to + 140 °F	± 30 Hz/1 hour + 25 °C; + 77 °F, after 1 hour	± 30 Hz/1 hour + 25 °C; + 77 °F, after 1 hour	± 30 Hz/1 hour + 25 °C; + 77 °F, after 1 hour	± 30 Hz/1 hour + 25 °C; + 77 °F, after 1 hour
	Max. power consumption or current drain	760 VA	650 VA	20 A at 13.8 V DC	500 VA	20 A at 13.8 V DC
	Dimensions (W) × (H) × (D) Projections not included.	425 × 149 × 411 mm 16 23/32 × 5 7/8 × 16 3/16″	424 × 150 × 390 mm 16 11/16 × 5 29/32 × 15 11/32″	330 × 111 × 285 mm 13 × 4 3/8 × 11 7/32″	330 × 111 × 285 mm 13 × 4 3/8 × 11 7/32″	241 × 94 × 239 mm 9 1/2 × 3 11/16 × 9 13/3
	Weight	23 kg; 50.7 lb	17.5 kg; 38.6 lb	8.6 kg; 19.0 lb	10.5 kg; 23.1 lb	4.6 kg; 10.1 lb
Transmitter	Output power	USB, LSB, CW, RTTY, FM: 15–150 W AM: 8–75 W	USB, LSB, CW, RTTY, FM: 10–100 W AM: 10–40 W	USB, LSB, CW, FM: 5–100 W AM: 4–40 W	HF/50 MHz: USB, LSB, CW, FM: 5–100 W AM: 4–40 W	USB, LSB, CW, FM: 1 10–100 W AM: 10–40 W
	Spurious emissions	Less than − 60 dB	Less than − 60 dB	Less than − 50 dB	HF: Less than − 50 dB 50 MHz: Less than − 60 dB	Less than − 50 dB
	Carrier suppression	More than 40 dB	More than 40 dB	More than 40 dB	More than 40 dB	More than 40 dB
	Unwanted sideband	More than 55 dB	More than 55 dB	More than 50 dB	More than 50 dB	More than 50 dB
Receiver	Sensitivity Preamp ON SSB, CW, RTTY, AM: For 10 dB S/N. FM: For 12 dB SINAD.	SSB, CW, RTTY: 0.1–0.5 MHz 0.5 µV 0.5–1.8 MHz 1.0 µV 1.8–30 MHz 0.16 µV AM: 0.1–0.5 MHz 3.2 µV 0.5–1.8 MHz 6.3 µV 1.8–30 MHz 1.0 µV FM: 28–30 MHz 0.23 µV	SSB, CW, RTTY: 0.1–0.5 MHz 0.7 µV 0.5–1.8 MHz 1.0 µV 1.8–30 MHz 0.15 µV AM: 0.1–0.5 MHz 4.4 µV 0.5–1.8 MHz 6.3 µV 1.8–30 MHz 1.0 µV FM: 28–30 MHz 0.3 µV	SSB, CW: 1.8–30 MHz 0.15 µV AM: 0.5–1.8 MHz 13 µV 1.8–30 MHz 2.0 µV FM: 28–30 MHz 0.5 µV	SSB, CW: 1.8–30 MHz 0.15 µV 50–54 MHz 0.13 µV AM: 0.5–1.8 MHz 13 µV 1.8–30 MHz 2.0 µV 50–54 MHz 1.6 µV FM: 28–30 MHz 0.5 µV 50–54 MHz 0.3 µV	SSB, CW: 1.8–30 MHz 0.1 AM: 0.5–1.8 MHz 13 1.8–30 MHz 2.0 FM: 28–30 MHz 0.5
	Selectivity	SSB, AM narrow, CW wide, RTTY wide: 2.4 kHz/ − 6 dB 3.8 kHz/ − 60 dB CW narrow, RTTY narrow: 250 Hz/ − 6 dB 800 Hz/ − 60 dB AM wide: 6.0 kHz/ − 6 dB 15 kHz/ − 60 dB FM: 15 kHz/ − 6 dB 30 kHz/ − 50 dB	SSB, CW wide, RTTY wide: 2.2 kHz/ − 6 dB 4.2 kHz/ − 60 dB CW narrow, RTTY narrow: 500 Hz/ − 6 dB 1.0 kHz/ − 60 dB AM: 6.0 kHz/ − 6 dB 18 kHz/ − 50 dB FM: 15 kHz/ − 6 dB 30 kHz/ − 50 dB	SSB, CW: 2.1 kHz/ − 6 dB 4.0 kHz/ − 60 dB AM: 6.0 kHz/ − 6 dB 20 kHz/ − 40 dB FM: 12 kHz/ − 6 dB 30 kHz/ − 50 dB	SSB, CW: 2.1 kHz/ − 6 dB 4.0 kHz/ − 60 dB AM: 6.0 kHz/ − 6 dB 20 kHz/ − 40 dB FM: 12 kHz/ − 6 dB 30 kHz/ − 50 dB	SSB, CW: 2.1 kHz/ − 6 dB 4.0 kHz/ − 60 dB AM: 6.0 kHz/ − 6 dB 20 kHz/ − 40 dB FM: 12 kHz/ − 6 dB 30 kHz/ − 50 dB
	Spurious and image rejection Except IF frequency.	More than 80 dB	More than 80 dB	More than 70 dB	More than 70 dB	More than 70 dB
	Audio output power At 10% distortion with an 8 Ω load.	More than 2.6 W	More than 2.6 W	More than 2.6 W	More than 2.6 W	More than 2.6 W

All stated specifications are subject to change without notice or obligation.

IC-707	IC-970H	UX-R96, UX-97, UX-98	IC-820H	IC-275H	IC-475H
.8, 3.5, 7, 10, 14, 18, 1, 24, 28 MHz bands 0 kHz–30 MHz ifications guaranteed kHz– 30 MHz.	U.S.A. version: Tx: 144–148 MHz Rx: 140.1–150 MHz* T/R: 430–450 MHz * Spec. guaranteed 143.8–148.2 MHz. Europe version: T/R: 144–146 MHz T/R: 430–440 MHz	UX-R96: 50–905 MHz (Rx only) UX-97: 1240–1300 MHz UX-98: 2400–2450 MHz	U.S.A. version: Tx: 144–148 MHz Rx: 136–174 MHz* T/R: 430–450 MHz * Spec. guaranteed 144–148 MHz. Europe version: T/R: 144–146 MHz T/R: 430–440 MHz	U.S.A. version: Tx: 144–148 MHz Rx: 138–174 MHz* * Spec. guaranteed 144–148 MHz. Europe version: T/R: 144–146 MHz	U.S.A. version: 430–450 MHz Europe version: 430–440 MHz
LSB, CW, AM, FM* optional UI-9 is uired for FM smitting/receiving.	USB, LSB, CW, FM	UX-R96 FM, wide FM, AM UX-97, UX-98: USB, LSB, CW, FM	USB, LSB, CW, FM	USB, LSB, CW, FM	USB, LSB, CW, FM
Hz/1 hour °C; + 77 °F, 1 hour	± 3 ppm 0 °C to + 50 °C; + 32 °F to + 122 °F	± 3 ppm 0 °C to + 50 °C (UX-R96: ± 3.5 ppm at 905 MHz)	± 3 ppm – 10 °C to + 60 °C; + 14 °F to + 140 °F	± 5 ppm 0 °C to + 50 °C; + 32 °F to + 122 °F	± 5 ppm 0 °C to + 50 °C; + 32 °F to + 122 °F
8 V DC	16 A at 13.8 V DC	UX-R96: 900 mA UX-97: 8 A UX-98: 4.5 A	16 A at 13.8 V DC	20 A at 13.8 V DC	20 A at 13.8 V DC
× 95 × 239 mm · 3 3/4 · 9 13/32"	425 × 149 × 406 mm 16 3/4 × 5 7/8 × 16"	123 × 57 × 250.5 mm (UX-R96: 83 × 48 × 154 mm)	241 × 94 × 239 mm 9 1/2 × 3 11/16 × 9 13/32"	241 × 94 × 239 mm 9 1/2 × 3 11/16 × 9 13/32"	241 × 94 × 239 mm 9 1/2 × 3 11/16 × 9 13/32"
c: 9.0 lb	14.5 kg; 32.0 lb	1.8 kg; 4.0 lb (UX-R96: 850 g; 1.9 lb)	5.0 kg; 11.0 lb	6.0 kg; 13.2 lb	6.0 kg; 13.2 lb
ı SB, CW, FM: 5 100 W 5 25 W	144 MHz SSB, CW: 5–35 W FM: 6–45 W 430 MHz SSB, CW: 5–30 W FM: 6–40 W	UX-R96: Receive only UX-97: 1.5–10 W UX-98: 0.2–1 W	144 MHz FM, CW: 6 W, 45 W SSB: 6 W, 35 W 430 MHz FM, CW: 6 W, 40 W SSB: 6 W, 30 W	10–100 W	10–75 W
than – 50 dB	Less than – 60 dB	UX-97: Less than – 50 dB UX-98: Less than – 40 dB	Less than – 60 dB	Less than – 60 dB	Less than – 60 dB
than 40 dB	More than 40 dB	More than 40 dB	More than 40 dB	More than 40 dB	More than 40 dB
than 50 dB	More than 40 dB	More than 40 dB	More than 40 dB	More than 40 dB	More than 40 dB
CW: 30 MHz 0.16 μV 1 8 MHz 12.6 μV -30 MHz 2.0 μV –30 MHz 0.5 μV	SSB, CW: 0.11 μV FM: 0.18 μV	UX-R96: FM: 0.4 μV FM wide: 1.1 μV AM: 1.4 μV UX-97: SSB, CW: 0.11 μV FM: 0.18 μV UX-98: SSB, CW: 0.11 μV FM: 0.2 μV	SSB, CW: 0.11 μV FM: 0.18 μV	SSB, CW: 0.1 μV FM: 0.18 μV	SSB, CW: 0.1 μV FM: 0.18 μV
CW: 1 kHz/ – 6 dB 0 kHz/ 60 dB 0 kHz/ - 6 dB kHz/ 40 dB kHz/ 6 dB kHz/ 50 dB	SSB, CW: 2.3 kHz/ – 6 dB 4.2 kHz/ – 60 dB FM: 15 kHz/ – 6 dB 30 kHz/ – 60 dB	SSB, CW*1: 2.3 kHz/ – 6 dB 4.2 kHz/ – 60 dB FM: 15 kHz/ – 6 dB 30 kHz/ – 60 dB AM*2: 15 kHz/ – 6 dB Wide FM*2: 180 kHz/ – 3 dB *1 UX-97, UX-98 only. *2 UX-R96 only.	SSB, CW: 2.3 kHz/ – 6 dB 4.2 kHz/ – 60 dB FM: 15 kHz/ – 6 dB 30 kHz/ – 60 dB	SSB, CW: 2.2 kHz/ – 6 dB 4.2 kHz/ – 60 dB FM: 15 kHz/ – 6 dB 30 kHz/ – 60 dB	SSB, CW: 2.3 kHz/ – 6 dB 4.0 kHz/ – 60 dB FM: 15 kHz/ – 6 dB 30 kHz/ – 60 dB
than 70 dB	More than 60 dB	UX-97: More than 50 dB UX-98: More than 45 dB	More than 60 dB	More than 70 dB	More than 70 dB
than 2.6 W	More than 1.5 W	——	More than 2.0 W	More than 2.0 W	More than 2.0 W

SPECIFICATIONS

Mobile transceivers

	IC-⊿100H	IC-2700H	IC-2340H	IC-281H	IC-481H
Frequency coverage Frequency coverage differs according to versions.	U.S.A. version: Tx: 144–148 MHz Rx: 136–174 MHz* T/R: 440–450 MHz T/R: 1240–1300 MHz * Spec. guaranteed 144–148 MHz. Europe version: T/R: 144–146 MHz T/R: 430–440 MHz T/R: 1240–1300 MHz	U.S.A. version: 144–148 MHz 440–450 MHz Europe version: 144–146 MHz 430–440 MHz	U.S.A. version: 144–148 MHz 440–450 MHz Europe version: 144–146 MHz 430–440 MHz	U.S.A. version: T/R: 144–148 MHz Rx: 440–450 MHz Europe version: T/R: 144–146 MHz Rx: 430–440 MHz	U.S.A. version: T/R: 440–450 MHz Rx: 136–174 MHz Europe version: T/R: 430–440 MHz Rx: 144–146 MHz
Max. current drain	12.0 A	12.0 A	10.5 A	10.5 A	10.5 A
Dimensions (W) × (H) × (D) Projections not included.	140 × 50 × 194.5 mm 5 1/2 × 1 31/32 × 7 21/32″	140 × 40 × 177 mm 5 1/2 × 1 9/16 × 6 31/32″	140 × 40 × 165 mm 5 1/2 × 1 9/16 × 6 1/2″	140 × 40 × 171 mm 5 1/2 × 1 9/16 × 6 23/32″	140 × 40 × 171 mm 5 1/2 × 1 9/16 × 6 23/32″
Weight	2.05 kg; 4.5 lb	1.45 kg; 3.2 lb	1.3 kg; 2.9 lb	930 g; 2.1 lb	960 g; 2.1 lb
Output power At 13.8 V DC.	144 MHz High: 50 W Low 2: 10 W Low 1: 5 W 430(440) MHz High: 35 W Low 2: 10 W Low 1: 5 W 1200 MHz High: 10 W Low: 1 W	144 MHz High: 50 W Low 2: 10 W Low 1: 5 W 430(440) MHz High: 35 W Low 2: 10 W Low 1: 5 W	144 MHz High: 45 W Low 2: 10 W Low 1: 5 W 430(440) MHz High: 35 W Low 2: 10 W Low 1: 5 W	High: 50 W Low 2: 10 W Low 1: 5 W	High: 35 W Low 2: 10 W Low 1: 5 W
Sensitivity For 12 dB SINAD.	Less than 0.16 µV	Less than 0.16 µV	Less than 0.16 µV	VHF: Less than 0.16 µV UHF: Less than 0.2 µV	UHF: Less than 0.16 µV VHF: Less than 0.18 µV

Handheld transceivers

	IC-⊿1A/E	IC-W21AT/ET	IC-V21AT	IC-2GXAT/ET IC-4GXAT/ET	IC-2GXA/E IC-4GXA/E	IC-T21A/E IC-T41A/E	IC-S21A/E IC-S41A/E
Frequency coverage Frequency coverage differs according to versions.	U.S.A. version: Tx: 144–148 MHz Rx: 138–174 MHz* 440–450 MHz 1240–1300 MHz Europe version: 144–146 MHz 430–440 MHz 1240–1300 MHz * Spec. guaranteed 144–148 MHz.	U.S.A. version: Tx: 144–148 MHz Rx: 138–174 MHz* 440–450 MHz Europe version: 144–146 MHz 430–440 MHz * Spec. guaranteed 144–148 MHz.	U.S.A. only: Tx: 144–148 MHz Rx: 136–174 MHz* 222–225 MHz * Spec. guaranteed 144–148 MHz.	IC-2GXAT/ET U.S.A. version: 144–148 MHz Europe version: 144–146 MHz IC-4GXAT/ET U.S.A. version: 440–450 MHz Europe version: 430–440 MHz	IC-2GXA/E U.S.A. version: 144–148 MHz Europe version: 144–146 MHz IC-4GXA/E U.S.A. version: 440–450 MHz Europe version: 430–440 MHz	IC-T21A/E U.S.A. version: T/R: 144–148 MHz Rx: 440–450 MHz Europe version: T/R: 144–146 MHz Rx: 430–440 MHz IC-T41A/E U.S.A. version: T/R: 440–450 MHz Rx: 144–148 MHz Europe version: T/R: 430–440 MHz Rx: 144–146 MHz	IC-S21A/E U.S.A. version: 144–148 MHz Europe version: 144–146 MHz IC-S41A/E U.S.A. version: 440–450 MHz Europe version: 430–440 MHz
Dimensions (W) × (H) × (D) Projections not included.	58 × 145 × 49 mm 2 9/32 × 5 23/32 × 1 15/16″ with BP-102.	57 × 125 × 35 mm 2 1/4 × 4 29/32 × 1 3/8″ with BP-157.	57 × 125 × 35 mm 2 1/4 × 4 29/32 × 1 3/8″ with BP-157A.	57 × 125 × 35 mm 2 1/4 × 4 29/32 × 1 3/8″ with BP-160.	57 × 125 × 35 mm 2 1/4 × 4 29/32 × 1 3/8″ with BP-160.	54 × 111 × 35.5 mm 2 1/8 × 4 3/8 × 1 13/32″ with BP-151.	
Weight	635 g; 1.4 lb with BP-102.	390 g; 13.8 oz with BP-157.	390 g; 13.8 oz with BP-157A.	IC-2GXAT/ET 365 g; 12.9 oz IC-4GXAT/ET 345 g; 12.2 oz with BP-160.	IC-2GXA/E 355 g; 12.5 oz IC-4GXA/E 340 g; 12.0 oz with BP-160.	315 g; 11.1 oz with BP-151.	
Output power Typical values, at 13.5 V DC.	144/430(440) MHz 5.0 W, 3.5 W, 1.5 W, 0.5 W 1200 MHz 1.0 W, 0.2 W	5.0 W, 3.5 W, 1.5 W, 0.5 W, 15 mW	5.0 W, 3.5 W, 1.5 W, 0.5 W, 20 mW	IC-2GXAT/ET 7.0 W, 1.0 W IC-4GXAT/ET 6.0 W, 1.0 W	IC-2GXA/E 7.0 W, 1.0 W IC-4GXA/E 6.0 W, 1.0 W	IC-T21A/E, IC-S21A/E 6.0 W, 4.0 W, 1.4 W, 1.0 W, 15 mW IC-T41A/E, IC-S41A/E 6.0 W, 4.0 W, 3.0 W, 2.0 W, 15 mW	
Sensitivity For 12 dB SINAD.	144/430(440) MHz Less than 0.16 µV 1200 MHz Less than 0.2 µV	Less than 0.16 µV	Less than 0.16 µV	Less than 0.18 µV	Less than 0.18 µV	Less than 0.16 µV (Less than 0.22 µV for bonus receive)	Less than 0.16 µV

All stated specifications are subject to change without notice or obligation.

MOBILE TRANSCEIVERS

TRIBAND FM TRANSCEIVER

IC-Δ100H

- **144, 430(440) and 1200 MHz band operation in a compact body**
- **Detachable front panel with optional separation kit**
- **Total 600 memory channels with 2 bank memory channel system**

• Full remote control microphone • Simultaneous receive of 3 or 2 signals on 430(440) or 144 MHz, respectively • One-touch PTT • Time-out timer • RF attenuator (except 1200 MHz) • AFC and RIT/VXO (1200 MHz only) • Optional pocket beep, tone squelch, pager and code squelch • Optional external DTMF remote

DUAL BAND FM TRANSCEIVER

IC-2700H

- **Detachable front panel with optional separation kit**
- **Full remote control microphone and optional wireless microphone**
- **Independent controls and switches for each band**

• 100 memory channels allocatable for both bands • 12 scratch pad memories • Simultaneous 2 signal receiving on the same band • Scan and priority watch • Built-in duplexer • Auto-power off • One-touch PTT • Pager and code squelch • External DTMF remote • Optional tone scan, pocket beep and tone squelch

DUAL BAND FM TRANSCEIVER

IC-2340H

- **Compact and lightweight dual bander**
- **Independent controls and switches for each band**
- **Optional Mic DTMF remote and external DTMF remote*** (*U.S.A. only)

• 4 scratch pad memories • 100 memory channels • Scan and priority watch • Time-out timer • Auto-power off • SUB band access • Built-in duplexer • Partial and total reset • Optional pager and code squelch • Optional tone scan, pocket beep and tone squelch • Optional voice synthesizer

144 MHz FM TRANSCEIVER

IC-281H

UHF FM TRANSCEIVER

IC-481H

- **Dual band receive and crossband full duplex capabilities**
- **Data switch and data connector for 9600 bps packet operation**
- **10 scratch pad memories**

• Memory channel allocation • Time-out timer • Pager and code squelch • Auto-power off • Optional tone scan, tone squelch, etc.

HANDHELD TRANSCEIVERS

TRIBAND FM TRANSCEIVER

IC-Δ1A
IC-Δ1E

- **2 m/70 cm/23 cm triband handheld**
- **Separate tuning dials for each band**
- **Crossband, double duplex operation**

• 5 W with 13.5 V DC (1 W for 1200 MHz) • 23 memory channels for each band • Programmable squelch level for each memory • Keypad with backlighting • Separately selectable audio lines • RIT and VXO for 1200 MHz • Clock and timers • Auto-power off • Scan and priority watch • 4 DTMF code memories • Pager and code squelch • Optional pocket beep and tone squelch

DUAL BAND FM TRANSCEIVER

IC-W21AT
IC-W21ET

- **V/V and U/U** (Simultaneous 2 signal receiving on the same band)
- **Auto repeater power control**
- **Large, easy-to-read function display**

• 5 W with 13.5 V DC • 32 memory channels for each band • AI key for quick function access • Keypad with backlighting • Optional whisper function • Clock and timers • Auto-power off • Versatile scan functions • Priority watch • Repeater quick memory • Tone encoder, pocket beep and tone squelch (Optional for non-U.S.A. versions) • 4 DTMF code memories • Pager and code squelch

DUAL BAND FM TRANSCEIVER

IC-V21AT

- **2 m/220 MHz dual band handheld**
- **2 signal receiving on the same band**
- **Repeater quick memory**

• 5 W with 13.5 V DC • 32 memory channels for each band • AI key for quick function access • Keypad with backlighting • Optional whisper function • Separate speaker control • Clock and timers • Auto-power off • Versatile scan functions • Priority watch • Tone encoder, pocket beep and tone squelch • Auto repeater power control • 4 DTMF code memories • Pager and code squelch

Whisper function is a telephone-like operation in crossband full duplex.

HANDHELD TRANSCEIVERS

144 MHz FM TRANSCEIVER

IC-2GXAT
IC-2GXET

UHF FM TRANSCEIVER

IC-4GXAT
IC-4GXET

- **7 W for VHF; 6 W for UHF** (with 13.5 V DC)
- **DTMF redial function**
- **Durable construction**

• 40 non-volatile memory channels • Channel indication mode • Display lighting with 5 sec. timer • Programmed scan and memory scan with skip function • Tone encoder, tone scan, pocket beep and tone squelch • 5 DTMF code memories • Optional pager and code squelch

144 MHz FM TRANSCEIVER

IC-2GXA
IC-2GXE

UHF FM TRANSCEIVER

IC-4GXA
IC-4GXE

- **Durable construction**
- **Channel indication mode**
- **7 W for VHF; 6 W for UHF** (with 13.5 V DC)

• 40 non-volatile memory channels • Display lighting with 5 sec. timer • Programmed scan and memory scan with skip function • Power saver • Tone encoder for the U.S.A. versions • Optional tone encoder, tone scan, pocket beep and tone squelch for non-U.S.A. versions

144 MHz FM TRANSCEIVER

IC-T21A
IC-T21E

UHF FM TRANSCEIVER

IC-T41A
IC-T41E

- **Dual band receive and crossband full duplex**
- **Low power consumption**
- **Ultra-high speed scans**

• 6 W output with 13.5 V DC • 100 non-volatile memory channels • Keypad with backlighting • Clock and timers • Priority watch • Auto-power off • Tone encoder, tone scan, pocket beep and tone squelch (Optional for non-U.S.A. versions) • 5 DTMF code memories • Pager and code squelch

144 MHz FM TRANSCEIVER

IC-S21A
IC-S21E

UHF FM TRANSCEIVER

IC-S41A
IC-S41E

- **Simple and lightweight**
- **Only 4 pcs.* dry cells for operation**
  *R6 (AA) size
- **Channel indication mode**

• 6 W output with 13.5 V DC • Large, easy-to-read function display • 100 non-volatile memory channels • Repeater memory • Ultra-high speed scans • Clock and timers with melody alert • Tone encoder, tone scan, pocket beep and tone squelch (Optional for non-U.S.A. versions)

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